

# Installation Guide

This installation guide covers the following models:

Osmio Eco Inline Water Filter 15mm

Osmio Eco Maxi 10 Inch Inline Water Filter 15mm

The filters are designed to fit on a cold water line to an existing cold side tap to make the water filtered without the need to change the tap. They can be installed easily on copper or speedfit plastic 15mm pipe.

## READ THIS BEFORE INSTALLATION

It is very important that the following must be considered before you install this product. Incoming water pressure must be tested before the installation. You can do this by using a pressure gauge (available online or at plumbers merchants, an example shown FIG1). Please note that your standing water pressure can increase up an additional 2 bar at night time.

We highly recommending protecting your entire property with a Pressure Reducing Valve (PRV - see FIG2) which can protect all appliances and plumbing from any increases or spikes in water pressure that can and do happen, which causes filter systems and other plumbing to leak. You can buy these online or from any good plumbers merchant.

**Maximum pressure 3 bar**

## TOOLS & MATERIALS

The Osmio Eco and Eco Maxi filters can be installed in different ways using 15mm copper pipe, 15mm speedfit plastic pipe or using hoses with 15mm compression fitting (one or two). So choice of fitting is up to you and what is easiest or most appropriate to your circumstances and the existing plumbing.

The system comes supplied with the following:

- 1 off Eco or Eco Maxi Filter Body
- 2 off 3/8" Male to 15mm Push Fittings
- 1 off Mounting Clip

You will need the following parts:

Silicone Grease (Plumber's Grease) & PTFE tape  
Spanner & Plumbers Wrench  
Philips head screwdriver & Flat edge screwdriver  
Appropriate screws to mount the filter to the vertical surface (e.g. wood screws) Plus any other tools used for the basic plumbing e.g. pipe cutter, elbows, copper pipe, hoses etc.



FIG1: WATER PRESSURE GAUGE



FIG2: PRESSURE REDUCING VALVE WITH GAUGE

# INSTALLATION STEPS

## STEP1: PLANNING THE INSTALLATION

Once you have tested your pressure and established if you need to fit a pressure reducing valve, you can proceed with planning your installation.

You can use copper 15mm or plastic 15mm pipe to push straight into the inlet and outlet of the filter system.



## STEP1: INSTALLING THE FITTINGS

Your kit comes supplied with two 3/8" male to 15mm push fittings



Apply around 7 wraps of PTFE tape to the 3/8" male thread. Then hand screw them into the inlet and outlet of the filter body. Use your spanner to tighten them up. Be careful not to overtighten as they are plastic fittings and will crack if overtightened.

## STEP2: MOUNTING THE CLIP



Your kit comes supplied with a 2" clip which you can use a wood screw (not supplied) to mount the filter. The filter can be mounted horizontally or vertically, but vertically is preferred when possible to ensure even flow of water through the filter.

The filter has a flow arrow pointing in the direction of the water flow. This indicated where the "in" and "out" goes, so ensure you have the filter pointing in the right direction for your water flow.

### STEP3: PREPARING THE PIPEWORK

First you need to turn off your cold water supply and drain down by turning on the cold water tap.

The in and out fittings are 15 mm 'push fit' fittings so ensure that you use push any 15 mm (copper or plastic/speedfit) pipe. You need to cut your cold water 15mm copper pipe and place the filter into the gap - so that it sits "in-line".

It is recommended to fit a small length (about 6-10cm) of copper pipe to fit to the compression fitting on a flexible hose as shown below.



In order to make the filter easy to change after 6 months, ensure at least one push fit end is flexible.

This makes filter changes much easier.

The copper pipe then needs to be pushed into the black 15mm push fittings.

Ensure they are in completely and firmly, you should feel them slide into place and push in an extra notch if done correctly.

The collet ring of the push fitting will pop out when the pipe is inserted.

To remove the pipe from the tubing you have to flatten the collet completely to pull out the pipe.

Noting the arrow showing the direction of the flow which should be pointing to the tap, you can now position the filter with the pipes in position and proceed to commissioning.

## STEP4: COMMISSIONING

Gently open the cold water supply and the cold water tap and allow the filter to flush at full flow rate for 3 minutes.

It is perfectly normal for the first water to come out black and this will quickly clear.

After the flush is complete, turn off the tap and using your torch, carefully check all the fittings for any leaks.

After this, the job is done and you have filtered water! The water may appear slightly cloudy for up to a couple of days until all the air escapes from the filter.

It is recommended that for drinking water, you can run your tap at slower than normal flow rates to ensure the water passes slower through the filter and the media contact time is greater.

This results in better filtration performance.

The filter should be replaced following the same steps every 6 months.

